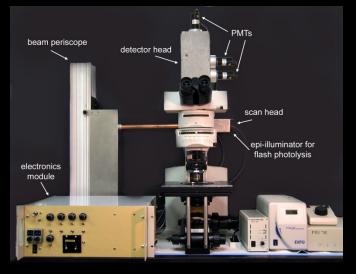
Observing Microorganisms

Ch. 3

Units of Measurement

Microscope Types







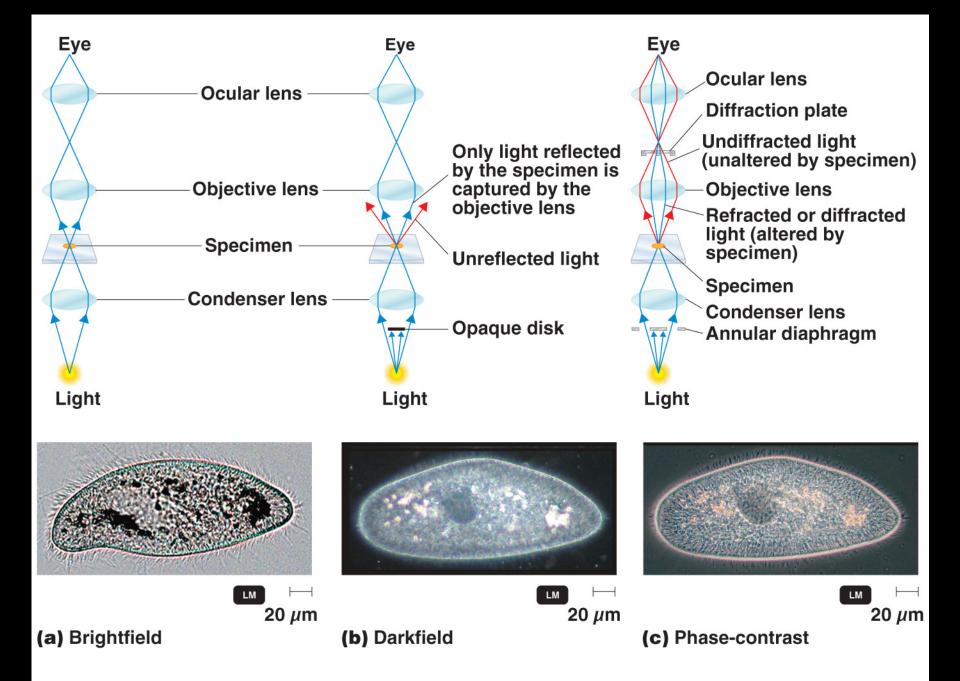




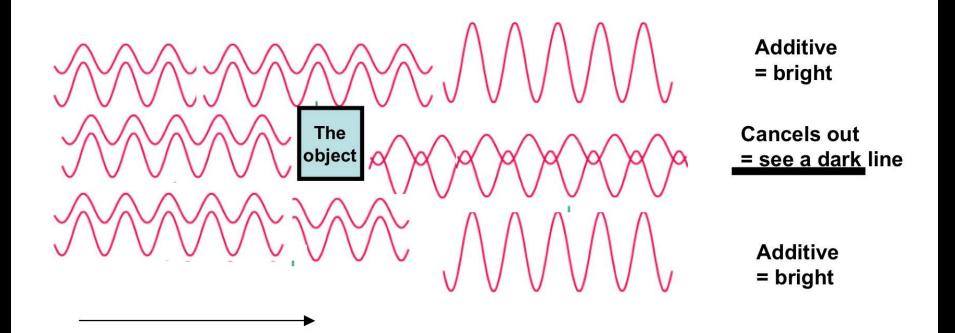
• What does it mean when a microscope has a resolution of 0.2 nm?

Variations on light microscopy

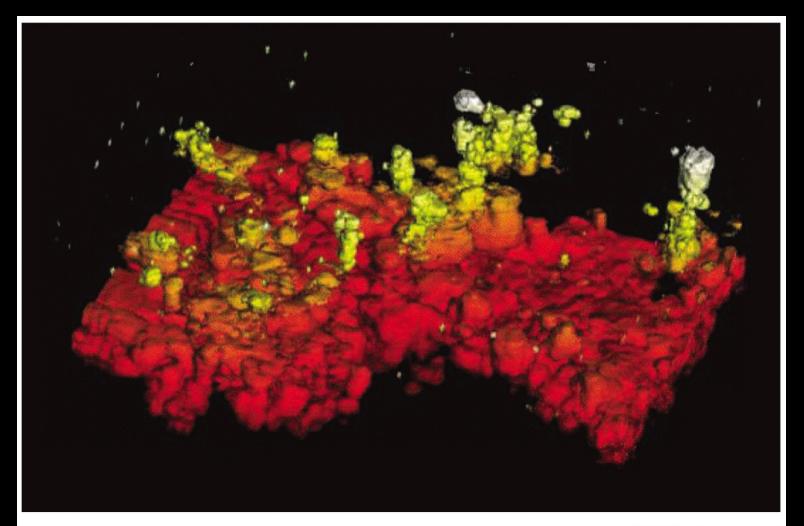
- Dark field
- Phase-contrast
- Fluorescence



Phase-contrast



Scanning acoustic microscopy

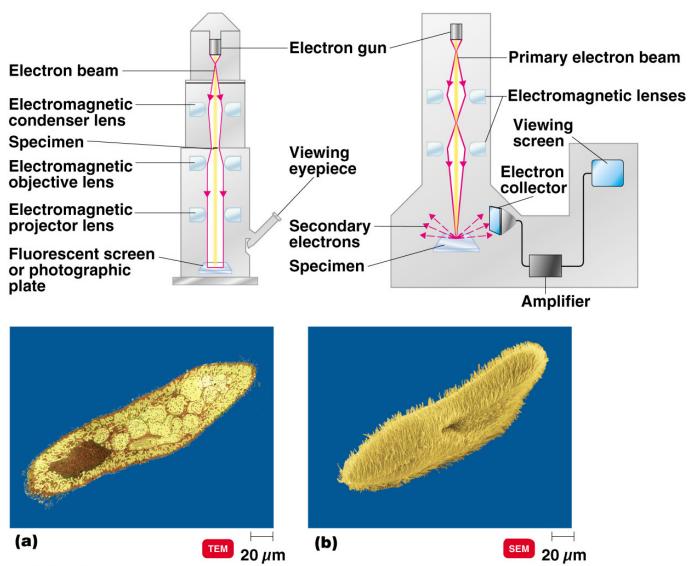


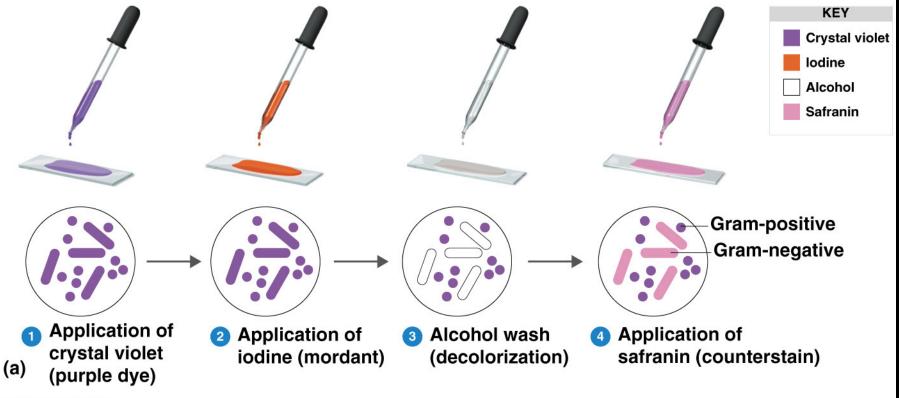


Electron microscopy



Electron microscopy

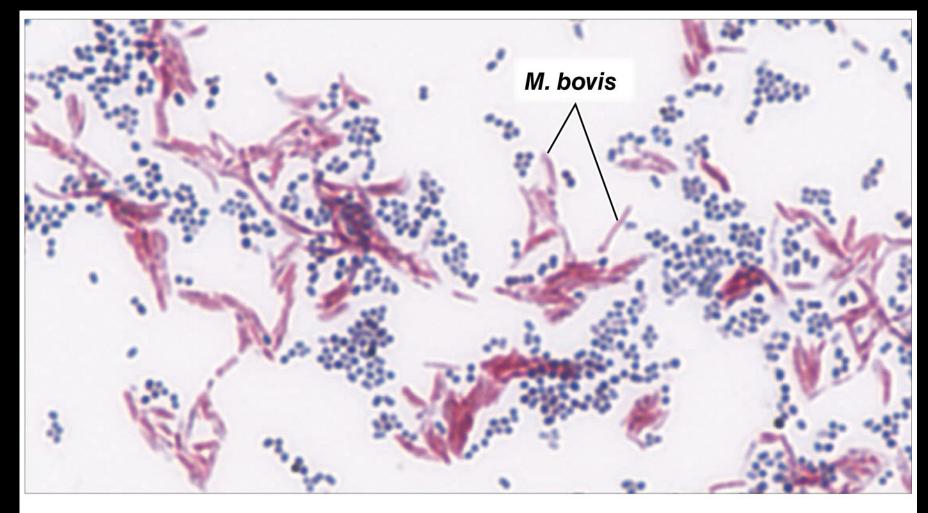




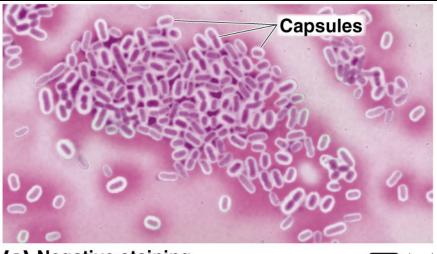
Rod (gram-negative) Cocci (gram-positive)





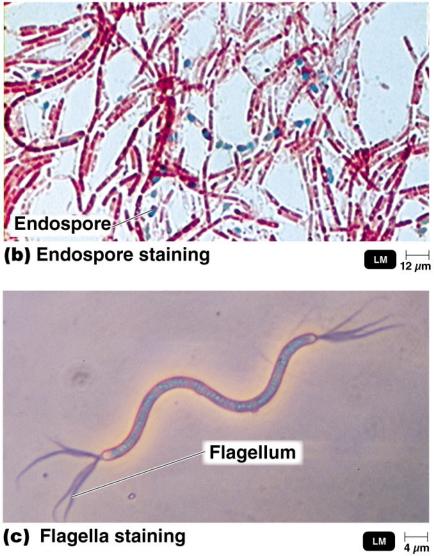




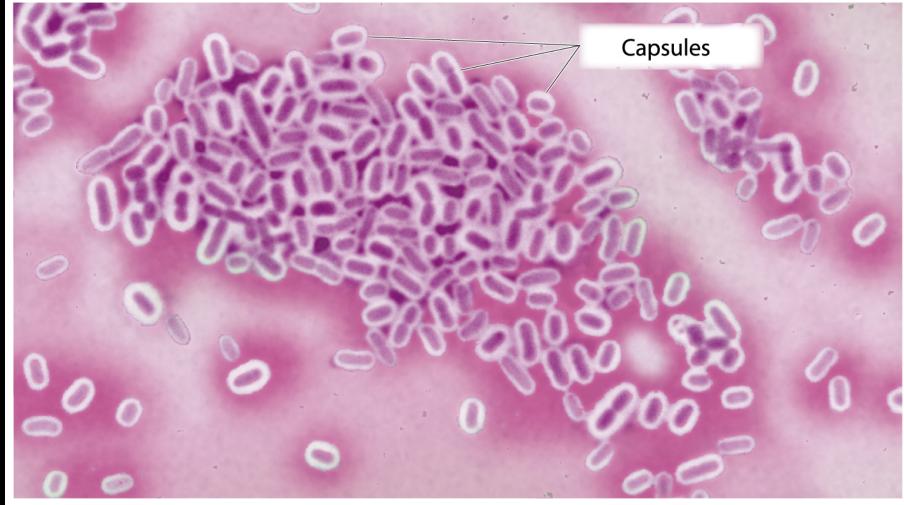


(a) Negative staining





(c) Flagella staining







Endospore

(b) Endospore staining







